AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing Of Claims

1. (Currently Amended) A biomedical superelastic Ti-based alloy containing 5 to 40 at % of Nb
that is an element for stabilizing β -phase of Ti, and <u>further</u> containing
(a) one or more elements selected from the group consisting of 10at% or less of Mo, 10at
% or less of Ge, 10at % or less of Ga, and 15at % of less of In;
(b) 30 at % or less of a sum total of the one or more elements selected from the group
consisting of Mo, Ge, Ga, and In;
(c) 60 at % or less of a sum total of Nb and the one or more elements selected from the
group consisting of Mo, Ge, Ga, and In; and
(d) Ti and unavoidable impurities as the residual part.

2. (Canceled)

- 3. (Currently Amended) A biomedical superelastic Ti-based alloy containing 5 to 40at% of Nb that is an element for stabilizing β -phase of Ti, and according to claim 1, further containing:
- (a) one or more elements selected from the group consisting of 7 at % or less of Mo, 10 at % or less of Al, 6 at % or less of Ge, and 6 at % of Ga;
- (b) 60 at % or less of a sum total of Nb and the one or more elements selected from the group consisting of Mo, Al, Ge, and Ga; and
 - (c) Ti and unavoidable impurities as the residual part.

Serial No. 10/697,407 Amdt. dated December 12, 2006 Reply to Office Action of July 12, 2006

- 4. (Currently Amended) The biomedical superelastic Ti-based alloy containing 5 to 40at % of Nb that is an element for stabilizing β -phase of Ti, according to claim 1, and further containing:
- (a) one or more elements selected from the group consisting of 10 at % or less of Mo, 45 at % or less of Al, 10 at % or less of Ge, 10 at % or less of Ga, and 15 at % or less of In;
 - (b) 15 at % or less of Sn;
- (c) 30 at % or less of a sum total of the one or more elements selected from the group consisting of Mo, Al. Ge, Ga, and In, and Sn;
- (d) 60 at % or less of a sum total of Nb, the one or more elements selected from the group consisting of Mo, Al, Ge, Ga and In, and Sn; and
 - (e) Ti and unavoidable impurities as the residual part.
- 5. (Currently Amended) The biomedical superelastic Ti-based alloy containing 5 to 40at % of Nb that is an element for stabilizing β -phase of Ti, according to claim 1, and further containing:
- (a) one or more elements selected from the group consisting of 7 at % or less of Mo, 10 at % or less of Al, 6 at % or less of Ge, and 6 at % or less of Ga;
 - (b) 12 at % or less of Sn;
- (c) 60 at % or less of a sum total of Nb, one or more elements selected from the group consisting of Mo, Al, Ge and Ga, and Sn; and
 - (d) Ti and unavoidable impurities as the residual part.
- 6. (Currently Amended) The biomedical superelastic Ti based alloy according to any one of claims 1, 3 to 5, wherein the alloy is for use in either of a medical guide wire, an orthodontic wire, a stent, an eyeglass frame, a nose pad arm of eyeglass, and an actuator of an endoscope.
- 7. (Currently Amended) A medical guide wire made of the biomedical superelastic alloy according to any one of claims 1, 3 to 5.

-2-

Serial No. 10/697,407 Amdt. dated December 12, 2006 Reply to Office Action of July 12, 2006

- 8. (Currently Amended) An orthodontic wire made of the biomedical superelastic alloy according to any one of claims 1, 3 to 5.
- 9. (Currently Amended) A stent made of the biomedical superelastic alloy according to any one of claims 1, 3 to 5.
- 10. (Currently Amended) An eyeglass frame or a nose pad arm of eyeglass made of the biomedical superelastic alloy according to any one of claims 1, 3 to 5.
- 11. (Currently Amended) An actuator of an endoscope made of the biomedical superelastic alloy according to any one of claims 1, 3 to 5.
- 12. (Withdrawn) A method of manufacturing a biomedical superelastic alloy, comprising the steps of:
- (a) preparing an ingot of a Ti-based alloy containing Ti and Nb as an essential component, or the Ti-based alloy further containing one or more elements of Mo, Al, Ge, Ga and In and unavoidable impurities as the residual part;
 - (b) performing a hot-working and a cold-working on the ingot,
- (c) performing annealing subsequent to the cold-working and further a final cold-working of 20% or more on the Ti-based alloy; and
- (d) performing heat treatment on the Ti-based alloy at a temperature of 300.degree. C. or more so as not to cause recrystallization or enlargement of crystal grain size due to recrystallization.
- 13. (Withdrawn) The method of manufacturing a biomedical superelastic Ti-based alloy according to claim 12, wherein the Ti-based alloy containing:
 - (a) 10 to 40 at % of Nb as an essential component;

-3-

Serial No. 10/697,407 Amdt. dated December 12, 2006 Reply to Office Action of July 12, 2006

- (b) one or more elements selected from the group consisting of 10 at % or less of Mo, 15 at % or less of Al, 10 at % or less of Ge, 10 at % or less of Ga, and 15 at % of less of In;
- (c) 30 at % or less of a sum total of the one or more elements selected from the group consisting of Mo, Al, Ge, Ga, and In; and
- (d) 60 at % or less of a sum total of Nb and one or more elements selected from the group consisting of Mo, Al, Ge, Ga, and Ti and unavoidable impurities as the residual part.
- 14. (Withdrawn) The method of manufacturing a biomedical superelastic Ti-based alloy according to claim 12, wherein the temperature of the heat treatment ranges from 400 to 500 °C, and heating time ranges from 1 second to 2 hours.
- 15. (Withdrawn) The method of manufacturing a biomedical superelastic Ti-based alloy according to claim 12, wherein the temperature of the heat treatment ranges from 400 to 500 °C, the heating time ranges from 1 second to 2 hours, and a residual strain of the Ti-based alloy is 1.5% or less after up to 4% tensile elongation.

-4-